

**ABSTRACT OF THE DISCLOSURE**

An analytical shell-model producing apparatus comprises a pair-surfaces acknowledging portion, a top/bottom side rib attribute acknowledging portion, an offset-surface producing portion, and an internal-surface producing portion. The pair-surfaces acknowledging portion acknowledges as the pair-surfaces when the face-to-face distance of two (2) surfaces is equal or less than a reference-plate thickness size, which constitutes the configuration model. The top/bottom side rib attribute acknowledging portion acknowledges the pair-surfaces as to be either the top or the bottom side surface and the rib surface. The offset-surface producing portion produces an offset-surface, by offsetting either the top or the bottom side surface and also the rip surface into an inside thereof. The internal-surface producing portion registers the offset-surface seaming therebetween as to be an internal-surface model.